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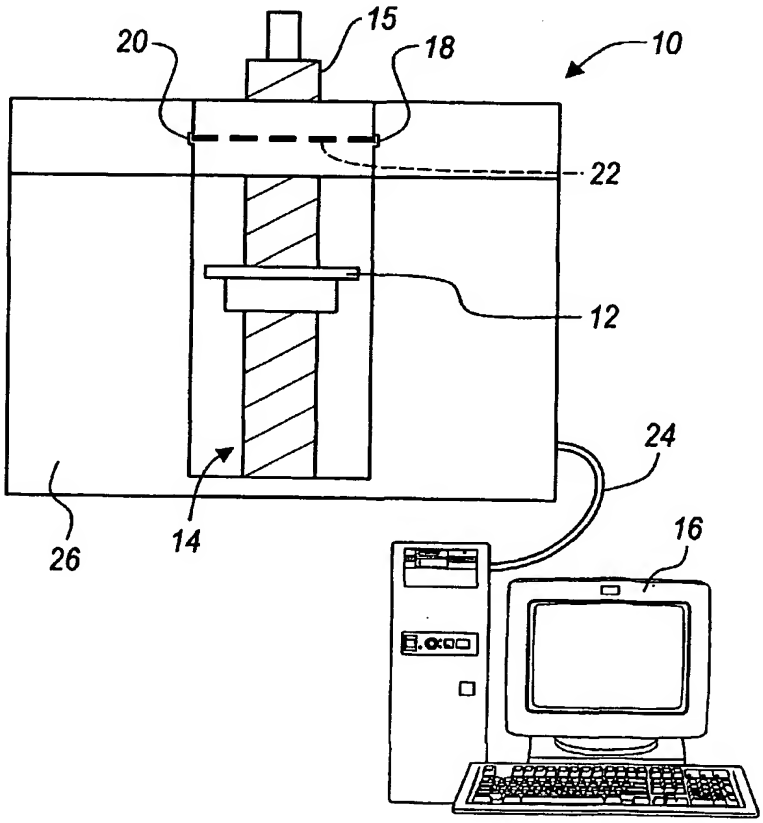
[Continued on next page]

(54) Title: LASER SYSTEM FOR MEASUREMENTS OF THE PROFILE OF OBJECTS



(57) Abstract: A system (10) for measuring a profile of an object comprising a source (18) creating a beam (22) of electromagnetic beam receiver (20) spaced from the source (18) for processing an output signal proportional to the girth of the object being measured. A platform (26) for providing rotational and vertical movement of the object being measured causing the object to obstruct a portion of the electromagnetic beam (22) generated by the source (18). A processor (16) for processing the output signal from the electromagnetic beam receiver (20) to form a composite profile of the object measured.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G01N 21/00, 9/04; G01B 11/24
US CL : 356/601, 240.1; 250/223B
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 356/601, 625, 635, 638, 239.1, 239.4, 240.1; 250/223B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,465,937A (FORBES) 14 August 1984 (14.08.1984), figures 1-2, column 3, lines 23-52; column 3, line 63 through column 4, line 13.	1-20
X	US 4,906,098 A (THOMAS et al.) 06 March 1990 (06.03.1990), figures 1, 3, 4 and column 6, lines 33-58.	1-12
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Y		13-20
A	US 4,298,285 A (ITO) 03 November 1981 (03.11.1981), figures 1-2.	1-20
A	US 5,753,905 A (RINGLIEN) 19 May 1998 (19.05.1998), figure 1.	1-20
A	US 4,863,275 A (CORMACK et al.) 05 September 1989 (05.09.1989), figures 2 and 5.	1-20

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INTERNATIONAL SEARCH REPORT

PCT/US04/09123

Continuation of B. FIELDS SEARCHED Item 3:
EAST and WEST
Search terms: light source, sensor or detector, profile (measur$4 or determin$4), bottle or container